

ZIOLKOWSKA, Blanka

X-ray studies of diphenylmercury. Roczn. chemii 36 no.9:1341-1347
'62.

1. Department of Crystallography and Mineralogy, Institute of
Technology, Warsaw.

POLAND

PYTASZ, Marian, CHEŁSTOWSKA, Grażyna, and ZIOLKOWSKA, Bożena; Department of Physiology (Zakład Fizjologii), AM [Akademia Medyczna, Medical Academy] in Wrocław (Director Prof. Dr. A. KLISIECKI)

"The Flow of Blood in the Vessels and in the Heart Muscle."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 14, 1 Apr 63, pp 497-501.

Abstract: [Authors' English summary modified] Experiments on animals to determine if there are any forces, apart from the heart muscle, which may cause the blood to flow, or if they are of significance to the organism were negative. Blood movement following heart-muscle arrest may continue 1--6 minutes due to blood translocation in the vessels, gravity, or muscle movement, but these are in addition rather than a substitution for heart muscle action, and changes of blood kinetic into potential energy, if any, are too small to have any effect. There are ten (10) references, of which eight (8) are Polish and two (2) German.

1/1

JUZWA, Witold; WASIKOWA, Renata; ZALEWSKA-JUZWA, Alicja; ZIOŁKOWSKA, Bozena;
PARADOWSKI, Andrzej

Effect of bean diet on the ammonia, urea and electrolyte level
of the blood and urine in healthy children. Pediat. Pol. 40 no.7:
691-699 Jl '65.

1. Z Zakladu Fizjologii AM we Wrocławiu (Kierownik: prof. dr.
A. Klisiecki) i z I Kliniki Pediatrycznej AM we Wrocławiu
(Kierownik: prof. dr. med. T. Nowakowski).

KLISIECKI, Andrzej; PYTASZ, Marian; ZIOŁKOWSKA, Bozena; CHEŁSTOWSKA, Grażyna;
BOCHENEK, Wiesław

Effect of diets on the reactivity of the blood and urine and on
their urea and electrolyte content. Pol. tyg. lek. 19 no.17:623-
627 20 Ap '64.

1. Z Zakładu Fizjologii Akademii Medycznej we Wrocławiu (kierownik:
prof. dr. A. Klisiecki).

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2

PYTASZ, Marian; CIELSTOWSKA, Grzegorz; ZIOLKOWSKA, Bozena

Excretion of electrolytes and nitrogen substances in the urine
of rabbits following epinephrine, norepinephrine and acetylcholine
administration. Acta physiol. Pol. 16 no.1:35-48 Jun-F'65.

1. Zaklad Fizjologii Akademii Medycznej we Wrocławiu (Kierow-
nik: prof. dr. A. Klisiecki).

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2"

LIP(1)/T/EXP(6)/EXP(6)/EXP(6)/EXP(6)-2 LIP(c) T/101 BM
 SOURCE CODE: C2/0043/65/000/003/0177/0185

44, 55 44, 55
 AUTHOR: Jezowska-Trzobiatowska, " ; Ziolkowski, J.

ORG: Department of Inorganic Chemistry, University of Wroclaw, Poland

TITLE: Electronic structure and chemical bonding in cyanonitrosyl complexes of transition metals [Paper presented at the Symposium on the Structure and Properties of Coordinated Compounds held in Bratislava from 2 to 4 September 1974]

SOURCE: Chemicke Zvesti, no. 3, 1965, 177-185

TOPIC TAGS: electron structure, chemical bonding, intermolecular complex, transition metal oxide, ion, exchange reaction, radioisotope, IR spectroscopy, metal oxidation, chromium, manganese, iron

ABSTRACT: The electronic structure of central ions in complexes of the $\text{[M}(\text{CN})_5\text{NO}]^{n-}$ type and the character of metal-ligand bond were interpreted using the radioisotopic exchange method and by the ESR spectra. Investigations of the kinetics of the isotopic exchange reaction in the system: $\text{[W}(\text{CN})_5\text{NO}]^{n-} + ^{14}\text{N}^+$ where $\text{M} = \text{Cr}^{+3}, \text{Mn}^{+2}, \text{Fe}^{+2}$ and $n = 5$ show that the effective valency state of central ions in the complexes investigated is $3+$. The stabilization of metal emulsion state in the pentacyanonitrosyl complexes of carbon, manganese and iron as compared with hexacyanide complexes is due to the increase of stability of $\text{M}-\text{NO}$ bond, because of the additional π -bond (dative or covalent type). The appearance of π -bond $\text{M}-\text{NC}$, along-

Card 1/2

L 9512-66

ACC NR: AF6002229

side the σ -bond was confirmed in the complexes of chromium, manganese and iron by investigations of kinetics and mechanism of exchange reaction as well as the very comprehensive examination of infrared spectra. The investigations of the IR-spectra demonstrated the close relationship between values and position of frequencies characteristic for N—O and M—N fundamental vibrations and π - or σ -bonds participation in information of M—N and N—O bonding. The above investigations permitted the construction of a general model of coordination in the NO group of the pentacyanonitrosoyl complexes of the first transition metal series. Orig. art. has: 11 tables, 3 formulas. [JPR]

SUB CODE: 07 / SUBM DATE: none / ORIG REF: 009 / OTH REF: 009

L.H.
Card 2/2

ZIOŁKOWSKA, MARIA

MATUSEWICZ, Miroslaw; WOJAKOWSKI, Ignacy; ZIOŁKOWSKA, Maria

Scoliosis in children in urban & rural areas. Chir. nara. ruchu 22
no.2:121-123 1957.

1. Z Oddziału Ortopedyczno-Urazowego Miejskiego Szpitala im.
Wl. Bieganskiego w Częstochowie Ordynator: dr Z. Telessynski. Częstochowa,
ul. Mickiewicza 12, Szpital im. Wl. Bieganskiego.

(SCOLIOSIS, in inf. & child

incidence in child. in urban & rural areas, comparison
(Pol))

(RURAL CONDITIONS,

incidence of scoliosis in child., comparison with child.
from urban areas (Pol))

BRETSZNAJDER, S.; ZIOLKOWSKI, D.

Effective thermal conductivity coefficient of granular catalytic beds.
I. Dependence of specific thermal conductivity of granular beds on
manner of packing. II. Dependence of the specific heat conductivity
of granular bed on the temperature gradient along the bed. Bul Ac
Pol chim 7 no.8: 579-584 '59. (EEAI 10:4)

1. Department of Fundamental Physico-Chemical Problems in Technology,
Institute of Physical Chemistry, Polish Academy of Sciences and
Department of Technological Designing, Institute of Technology,
Warsaw. Communicated by S.Bretsznajder.

(Heat) (Catalysis) (Granular substances)

BRETSZNAJDER, S.; ZIOLKOWSKI, D.; SURDACKI, T.

Effective thermal conductivity of granular solids in rotary units. Bul chim PAN 11 no.12:711-713 '63.

1. Department of Fundamental Physico-chemical Problems in Technology, Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw and Department of Technological Designing, Technical University, Warsaw.

ZIOLKOWSKI, D., dr

Penetration of heat in a granular contact layer; effective thermal conductivity. Wiad chem 17 no.8:488-491 Ag '63.

BRĘTSZNAJDER, Stanislaw; ZIOLKOWSKI, Dariusz

On the specific thermal conductivity of some carbon linings.
Przem chem 40 no.12:705-708 D '61.

1. Katedra Projektowania Technologicznego, Politechnika, Warszawa i
Instytut Chemii Ogólnej, Warszawa.

ZIOLKOWSKI, Eugeniusz, mgr.

Remarks on the utilization of patents in the field of fuel
and power engineering in industry;
patent claims deserving to be checked for use in industry.
Gosp paliw 11 no.9:352-353 S '63.

JEZOWSKA-TRZEBIATOWSKA, B.; ZIOLKOWSKI, J.; WOJCIECHOWSKI, W.

Absorption spectra of nitrosylcyanide complexes of transition metals. Bul chim PAN 11 no.10:567-573 '63.

The application of the M.O. method to investigations of nitrosylcyanide complexes. Ibid.:575-578

1. Department of Inorganic Chemistry, University, Wroclaw.
Presented by W. Trzebiatowski.

ZIOLKOWSKI, J.

Telecommunication development trends in the Five-Year Plan dealing with communication.

p. 322
Vol. 28, no. 10, Oct. 1955
PRZEGLAD TELEKOMUNIKACYJNY
Warszawa

SO: Monthly List of East European Accessions (EEAL), LC, vol. 5, no. 2
Feb. 1956

ZIOLEWSKI, J.

"Rare Elements in the Coal of Upper Silesia." p. 180, Stalingrad, Vol. 10, no. 5, May 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

The presence of the following rare elements has been found by spectrographic analysis in Upper Silesian coal: lead, copper, chromium, manganese, zinc, tin, barium, bismuth, cobalt, zirconium, nickel, cadmium, vanadium, tungsten, gallium, indium, hafnium, scandium, columbian and germanium. It has also been found that the proportion of the above-mentioned elements in the coal varies at different points in the seam.

ZIOLKOWSKI, J.

Coking properties of some coal macerals. p. 153

KAKS, SMOLA, GAZ. Katowice, Poland Vol. 4, no. 4, July/August. 1959.

Monthly List of East European Accessions., (EEAI) LC, Vol. 9, no. 1,
Jan. 1960

Uncl.

JEZOWSKA-TRZEBIATOWSKA, B.; ZIOLKOWSKI, J.

Infrared spectra of pentacyanonitro-yl complexes of transition metals. Bul chim PAN 12 no.8:503-506 '64.

1. Department of Inorganic Chemistry of Wroclaw University.
Submitted May 25, 1964.

<u>ZIOLKOWSKI, J.</u>	
COUPERT	: Poland
CATEGORY	: Chemical Technology. Chemical Products and Their Applications--Chemical processing of solid fossil
REF. JOUR.	: RZKhim., No. 5 1960, No. 14373
AUTHOR	: Ziolkowski, J.
INST.	: Central Mining Institute (Poland)
TITLE	: The Physical and Chemical Properties of the Petrographic Components of Coal. Part I.
LANG. PUB.	: Prace Glowne Inst Gorn., B, No 229 (1959)
ABSTRACT	: The petrographic components (PC) of a series of coals belonging to Type 31 according to the Polish classification have been separated. Data are presented indicating that the PC differ in degree of carbonification, volatile matter content, degree of ring condensation and aromatization, and in content of aliphatic, bicyclic, and aromatic C. Individual PC also exhibit different tendencies to spontaneous ignition. The author points out that the PC, being homogeneous substances, should be
Code	: 1/2 *fuels.
	: 508

COUNTRY:	:	Poland	H-22
CATEGORY:	:		
REF. JOUR.	:	RZMh52, No. 5 1960, No.	19273
AUTHOR:	:		
DATE:	:		
ITEMS:	:		
CLASS. SUB.:	:		
ABSTRACT:	:	I considered as the principal characteristic components of coal seams. The bibliography lists 25 titles.	Va. Satunovskiy
CARDS:	2/2		

L 29455-66 T IJP(c) AT
ACC NR: AP5028968

SOURCE CODE: P0/0053/65/000/008/0381/0384

50
B

AUTHOR: Ziolkowski, J.

ORG: Semiconductor Catalysis Workshop, Physicochemistry of Surface Phenomena Department, Physical Chemistry Institute PAN, Cracow (Pracownia Katalizy Polprzewodnikowej, Zaklad Fizykochemii Zjawisk Powierzchniowych, Instytut Chemii Fizycznej PAN)

TITLE: New method of determining the figure of merit for thermo-electric materials

SOURCE: Przeglad elektroniki, no. 8, 1965, 381-384

TOPIC TAGS: thermoelectric power, thermal conduction, Q factor, electric resistance, semiconducting material, measurement, thermoelectric property

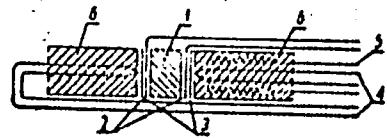
ABSTRACT: The figure of merit z is determined from the thermoelectric power α , the thermal conductivity k, and resistivity ρ in the relationship $z = \alpha^2 / k \rho$. The measurements are carried out on a sample set as in Fig. 1. The control measurements on nickel oxide as compared with the direct measurements show that there is a small error in this method of measurement and that it can be reduced by employing suitable safeguards against heat dissipation. Orig. art. has 1 fig., 1 table, and 7 formulas.

UDC: 621.36

Card 1/2

I 29455-66

ACC NR: AP5028968



1. sample, 2. electrodes, 3. insulator, 4. termocouples, 5. heater,
6. metal slugs

SUB CODE: 2014 / SUBM DATE: 25Jan65 / OTH REF: 004

Card 2/2 ✓

JEZOWSKI-TRZEBIATOWSKA, B.; ZIOŁKOWSKI, J.

Electronic structure and chemical bonding in cyanonitro-¹
complexes of transition metals. Chem zvesti 19 no.3:177-
185 '65.

1. Department of Chemistry, University of Wrocław, Poland,

ZIOLKOWSKI, K.

Systematic errors in determining the coordinates of the mass center of the head of a comet and their influence on the determined elements of its orbit. Postepy astronom 12 no.1:47-50 '64.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2

ZIOLKOWSKI, K.

General evaluation method of the errors of integration of the equations of celestial mechanics. Postepy astronomii 12 no.2:103-122. '64.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2"

ZIOLKOWSKI, K.

9/035/62/000/012/005/064
A001/A101

AUTHOR: None given

TITLE: "Urania" (Poland), 1962, v. 33, no. 7

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 12, 1962, 6,
abstract 12A34 ("Urania".(Polska), 1962, v. 33, no. 7, 194 - 220,
Polish)

TEXT: The following articles have been published: "Electrical Universe"
by K. Ziolkowski; "Space Medicine" by B. Falkiewicz; "The name of Copernicus
in botanics" by B. Gomola; "Eternal satellite" by J. Gadomski; "Voices from
Brudzew", "Copernicus portrait on the clock of the Strassburg cathedral" and
"Kant on Copernicus" by S. Brzostkiewicz; "Discovery of Transpluto" by S. Lu-
bertowicz; "Correction to the article on Comets" by F. Kępinski; "On the problem
of restoration of Frombork" by S. Przyłęcki; "470 anniversary of the first ter-
restrial globe" by J. Pagaczewski, etc. ✓

[Abstracter's note: Complete translation]
Card 1/1

N. Ch.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2

ZIOLKOWSKI, Krzysztof (Warszawa)

Sirius and its companion. Urania 33 no.4:101-106 Ap '62.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2"

ZIOLKOWSKI, Marian (Poznan)

Industrialization of building as limiting means of season production. Przegl budowl i bud mieszk 36 no. 4:180-183 Ap '64.

ROBACZYSKI, Jerzy; ZIOLKOWSKI, Mieczyslaw

Supernumerary oviducts and supernumerary abdominal ostia of
the oviducts in woman. Folia morphol 22 no. 2:161-167 '63

1. Zaklad Anatomii Opisowej, Akademia Medyczna, Wrocław.
Kierownik: prof. dr nauk med. T. Marciniak, I I Klinika
Poloznictwa i Chorob Kobiecych, Akademia Medyczna, Wrocław.
Kierownik: prof. dr. K. Nowosad.

ZIOLKOWSKI, Mieczyslaw; ROBACZYNKI, Jerzy

A case of anomalous congenital abdominal orifice of the oviduct,
Gin.polska 32 no.6:749-754 '61.

I, Z Zakladu Anatomii Opisowej AM we Wrocławiu Kierownik: prof.
dr nauk med. T. Marcinia k Z I Kliniki Położnictwa i Chorob Kobiecych
AM we Wrocławiu Kierownik: prof. dr K. Nowosad.
(oviducts abnorm)

ZIOLKOWSKI, Ryszard, mgr. inz.; CWYNAR, Ludwik, mgr. inz.

Testing of the water circulation in boilers of three-level evaporation with external separation cyclones. Energetyka Pol 16 no.6:Suppl.:Biul Instyt Energet 4 no.5/6:17-23 Je '62.

ZIOLKOWSKI, R.; CYNAR, L.

Investigation of the water circulation of EKM-50 boilers. Pt. 2. p. 124

ENERGETYKA (Ministerstwo Gornictwa i Energetyki oraz Stowarzyszenie Elektryków Polskich) Bytom, Poland. Vol. 13, no. 5, May 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959
Unci.

ZIOLKOWSKI, R.; CLEYNAR, L.

Investigation of the water circulation of EKN-50 boilers. Pt. 1 (to be cont.) p. 95

ENERGETYKA (Ministerstwo Gornictwa i Energetyki oraz Stowarzyszenie Elektryków Polskich) Bytom, Poland. Vol. 13, no. 4, Apr 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959.
Uncl.

WISNIEWSKI, Włodzimierz, dr inż.; ZIOLKOWSKI, Ryszard, mgr inż.

Feed water circulation in the OP-130/110 steam boiler while overloaded and under dynamic conditions. Energetyka Pol 17 no.12:Supplement: Biul inst energetyki 5 no.11/12:42-44 D'63.

1. Zakład Cieplny, Instytut Energetyki, Warszawa.

CWYMAR, Ludwik, mgr inż.; ZIOLKOWSKI, Ryszard, mgr inż.

Studies on the radiant superheater while in operation. Energetyka
Pol. Suppl.: Biul inst energ 5 no.3/4:9-12 Ap '63.

1. Zakład Cieplny, Instytut Energetyki, Warszawa.

ZIOLKOWSKI, Ryszard, mgr. inz.

The quick putting into operation of boilers fired with pulverized
coal. Energetyka Pol 14 no.2:29-32 '60. (KMAI 9:6)
(Poland-- Boilers)

ZIOLKOWSKI, R.

Remarks on the use of boilers fired with pulverized coal. p. 17.
(EPORTKA. Vol. 11, no. 4, July/Aug. 1957. Warsaw, Poland)

SD: Monthly List of East European Acquisitions (MEAL) ED. Vol. 6, no. 12, Dec. 1957.
Uncl.

ZIOLKOWSKI, Ryszard, mgr inz.

Research station for combustion testing of brown coal dust.
Energetyka Pol 18 no.4 Supplement do inst energetyki 6
no.3/4 s.11-13 Ap'64

1. Heat Engineering Laboratory, Power Institute, Warsaw.

ZIOLKOWSKI, Ryszard, mgr inż.

Thermal asymmetry of large steam boilers for brown coal.
Energetyka Pol 18 no.12; Suppl. Biul Inst energetyki 6 no.
11/12;49-54 D '64.

1. Thermal Department of the Institute of Power Engineering,
Warsaw.

ZIOLKOWSKI, Ryszard, mgr inz.; BUDZINSKI, Zygmunt, mgr inż.

Investigation on rational starting of a 25 MW turbine-boiler system.
Energetyka 14 no.12 Biuletyn: 37-41 D '60. (EEAI 10:5)

1. Zaklad Cieplny
(Steam boilers) (Turbines)

ZIOLKOWSKI, Tadeusz

Comparison of technics of general anesthesia used in gynaecological surgery. Ginek. Pol. 35 no.4:581-590 Jl-Ag '64

1. Z II Kliniki Poloznictwa i Chorob Kobiecych Akademii Medycznej w Gdansku (Kierownik: prof. dr. med. W. Gromadzki).

ZIOŁKOWSKI, Tadeusz

Use of dulcolax for the stimulation of intestinal peristalsis
in early postoperative stages. Ginek. Vol. 36 no.1257-61
Ja '65

1. Z II Kliniki Położnictwa i Chorob Kobiecych Akademii
Medycznej w Gdańskim (Kierownika prof. dr. med. W. Oromadzki).

ZIOLKOWSKI, Tadeusz

Value of general endotracheal anaesthesia with the use of relaxant agents in gynecological surgical procedures. Ginek. Pol. 36 no.6: 655-661 Je '65.

1. Z II Kliniki Poloznictwa i Chorob Kobiecych Akademii Medycznej w Gdansku (Kierownik: prof. dr. med. W. Gromadzki).

ZIOŁKOWSKI, T.

A few remarks on the organization and work of the Industrial Safety and Hygiene Service. p. 29.

LAS POLSKI. (Ministerstwo Lesnictwa oraz Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Leśnictwa i Drzewnictwa) Warszawa, Poland, Vol. 29, no. 2, Feb. 1955

Monthly list of East European Accessions (EAAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2

ADAMSKI, Czeslaw, doc. dr inz.; ZIOLKOWSKI, Stanislaw, inz.; ZEP
Ireneusz, mgr inz.

Influence of the melting technology on the mechanical
properties and structure of special Cu5/Mn4Fe11Sn11Zn bronze.
Przegl odlew 13 no. 12:328-332 D '63.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2"

ZIOLKOWSKI, Stanislaw, ins.

Reed and other water plants as biological protection of navigation channel slopes. Gosp wodna 23 nr 4:144-146 Ap '63.

1. Zaklad Hydrotechniki, Instytut Gospodarki Wodnej, Warszawa.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2

ZIOLKOWSKI, Stanislaw, ins.; ZEP, Ireneusz, mgr ins.

Attempts of using shaped foundry coke for the melting of copper
alloys. Przegl odlew 12 no.11:358-359 N '62.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2"

ZIOLKOWSKI, Zdzislaw; BELINA, Danuta

Heights of the transfer unit for the aqueous solution of sodium sulfate and sulfite - phenol - benzene system. Chemia stosow 6 no.2:167-190 '62.

1. Zaklad Inżynierii Chemicznej i Konstrukcji Aparatury, Polska Akademia Nauk, i Katedra Inżynierii Chemicznej, Politechnika, Wrocław.

ZIOLKOWSKI, Zdzislaw; KOCH, Roman

Certain problems of chemisorption kinetics in the emulsification range as seen from the example of CO₂ absorption by aqueous NaOH solutions. Chemia stosow 7 no.4:519-543 '63.

1. Zaklad Inżynierii Chemicznej i Konstrukcji Aparatury, Polska Akademia Nauk i Katedra Inżynierii Chemicznej, Politechnika, Wrocław.

ZIOLKOWSKI, Z.

"Properties of gases and liquide" by S. Bretsznajder. Reviewed
by Z. Ziolkowski. Wiad chem 17 no. 4: 269-270 Ap '63.

ZIOŁKOWSKI Z.

Wojewódzki Szpital. Dziecięcy, Bydgoszcz. Znaczenie pisma w plaswicy. *The importance of permanence in chorea PEDIAT. POL. 1953, 28/12 (1203-1208) Illus. 6

A study of handwriting of 27 children showed that an early diagnosis of chorea may be made and the progress of the disease as well as improvement due to treatment may be followed by observing the changes in handwriting. Examples of handwritings of ill and cured children are reproduced.

Rappaport - Tel Aviv (XX, 7,8)

SO: Excerpta Medica; Section VIII Vol. 7 No. 11

ZIOLKOWSKI, Zbigniew (Warszawa)

Notes on the Five Year Plan for technical progressin the food industry. Przem spoz 15 no.8:1-10 '61.

1. Redaktor dzialowy miesiecznika "Przemysl Spozywczy"

ZIOLKOWSKI, Zdzislaw; KUBICA, Jan

The unit size of mass transferring in a pulsating extraction column filled with Raschig rings. Chemia stocow 5 no.3:363-370 '61.

1. Zaklad Inżynierii Chemicznej i Konstrukcji Apparatury,
Polska Akademia Nauk, Wrocław i Katedra Inżynierii Chemicznej,
Politechnika, Wrocław.

ZIOLKOWSKI, Z.

COUNTRY : Poland U-23
CATEGORY :
ABS. JOUR. : RZKhim., No. 5 1960, No. 19460
AUTHOR : Ziolkowski, Z. and Naumowicz, J.
INST. : Not given
TITLE : The Dephenylation of the Gasoline Obtained from Semicoke Resins in an Extraction Column with the Use of Slugging
ORIG. PUB. : Chem Stosow, 2, No 4, 475-489 (1958)
ABSTRACT : The dephenylation of the heavy gasoline fraction obtained from semicoke resins, containing 6.5% of acid compounds, has been investigated. The acid compounds are removed by washing with 13% NaOH in columns packed with Raschig rings and by the use of pulsation (pumping) of the liquid with a specially designed pump. The authors indicate that the investigated process bears a mixed physicochemical character. In the first stage the phenols react chemically with the NaOH and in

CARD: 1/2

327

COUNTRY:	:	Poland	H-23
CATEGORY:	:		
ABS. JOUR.	:	RZENIE, No. 5 1960, No.	19460
AUTHOR:	:		
INST.	:		
TITLE:	:		
ORIG. PUB.:	:		
ABSTRACT:	:	the second stage, they are washed out physically by the solution of phenolates which is formed. The application of pulsation permits a marked reduction in NaOH consumption, prevents the formation of precipitates, and permits a marked reduction in column height.	
			Ya. Satunovskiy
CARD:	2/2		

ZIOLKOWSKI, Zdzislaw; BĘLINA-FREUNDLICH, Danuta

Announcement. Chemia stosow 6 no. 4:615-616 '62.

1. Katedra Inżynierii Chemicznej, Politechnika, Wrückaw.

ZIOLKOWSKI, Zdzislaw; KUBICA, Jan

The height of transfer unit in a pulsating extraction column filled
with Raschig rings. Chemia stosow 5 no.3:363-370 '61.

1. Zaklad Inżynierii Chemicznej i Konstrukcji Aparatury, Polska Akademia
Nauk i Katedra Inżynierii Chemicznej, Politechnika Wrocławskiego.

ZIOŁOKOWSKI, Zdzisław; KOCH, Roman

Operation characteristics of the centrifugal mechanical absorber.
Chemia stosow 3 no.1:37-56 '59.

1. Katedra Inżynierii Chemicznej, Politechnika, Wrocław.

ZIOLKOWSKI, Zdzislaw; KUBICA, Jan

Influence of the amplitude and frequency of the pulsation in a sieve column upon the size of the transfer unit. Chemia stosow 3 no.1: 57-70 '59.

1. Katedra Inżynierii Chemicznej, Politechnika, Wrocław.

ZIOLKOWSKI, Zdzislaw; KUBICA, Jan

Influence of the flow rate and pulsation upon the over-all transfer unit size for an extraction sieve-plate tower column. Chemia stosow 3 no.4:461-474 '59.

1. Zaklad Inzynierii Chemicznej i Konstrukcji Aparatury, Polska Akademia Nauk, Wrocław i Katedra Inzynierii Chemicznej, Politechnika, Wrocław.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2

ZIOLKOWSKI, Zdzislaw; NAUMOWICZ, Jerzy; KAKOMASKI, Krzysztof

Extraction of phenols in a packed tower with low concentrations.
Chemia stosow 3 no.4:475-485 '59.

1. Katedra Inżynierii Chemicznej, Politechnika, Wrocław.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2"

ZIOLKOWSKI, Z.

Dephenolization of low-temperature carbonized gasoline
in extraction columns with pulsation. Zdzislaw Ziolkowski
and Jerzy Naumowicz. Chemia Stosowana 1, 116-121
(1958). Low-temp. carbonized gasoline was dephenolized
by means of a NaOH soln. This process has phys.-chem.
character; and by applying a countercurrent technique, the
amt. of NaOH can be considerably reduced. Application of
pulsation makes it possible to carry on the process in packed
columns since pulsation prevents the deposition of solid
impurities. Gregor Melnyk

ZIOŁKOWSKI, Zdzislaw; KUBICA, Jan.

Influence of pulsation and flow rate on the height of transfer
unit in an extraction plate tower. Chemia stosow 3 no.4:461-474
'59. (HEAI 9:6)

1. Zaklad Inzynerii Chemicznej i Konstrukcji Aparatury Polskiej
Akademii Nauk i Katedra Inżynierii Chemicznej Politechniki
Wrocławskiej.

(Phenols) (Butyl acetate) (Plate towers)
(Water) (Systems (Chemistry))

ZIOLKOWSKI, Z.; NAUMOWICZ, Jerzy [deceased]; MAKOMASKI, Krzysztof

Extraction of phenols in packed tower with low concentrations.
Chemia stosow 3 no.4:475-486 '59. (HEAI 9:6)

1. Katedra Inzynerii Chemicznej Politechniki Warszawskiej
(Benzene) (Phenols) (Packed towers)
(Butyl acetate) (Resorcinol)

POLAND/Magnetism - Ferrites and Ferrimagnetism.

F

Abs Jour : Ref Zhur Fizika, No 10, 1959, 22840

Author : Kozlowski, L., Ziolkowski, Z.

Inst :

Title : Effect of Additives of Oxides of Certain Metals on the Structure and Magnetic Properties of Barium Ferrites

Orig Pub : Prace inst. hutn., 1958, 10, No 6, 305-331

Abstract : A survey is given of the data on the influence of additives of oxides of certain metals on the magnetic properties of Ba-Sr, Pb ferrites. The effect of adding Al_2O_3 , Bi_2O_3 , Mn_2O_3 , Cr_2O_3 , CoO, and NiO on the structure and magnetic properties of $\text{Ba}^{0.6}\text{Fe}_2\text{O}_3$ is investigated.

Card 1/1

POLAND/Physical Chemistry - Crystals.

B

Abs Jour : Ref Zhur Khimiya, No 19, 1959, 67175

Author : Kozowski, L., Ziolkowski, Z.

Inst :

Title : The Effect of the Addition of Certain Metal Oxides on the Structure and Magnetic Properties of Barium Ferrites.

Orig Pub : Praca inst. hutn., 1958, 10, No 6, 305-331

Abstract : The effect of the addition of Al_2O_3 , Bi_2O_3 , Mn_2O_3 , Cr_2O_3 , CoO , and NiO on the structures and magnetic properties of $\text{BaO} \cdot 6\text{Fe}_2\text{O}_3$ was investigated. -- From authors' summary.

Card 1/1

- 11 -

S/137/62/000/001/168/237
A006/A101

AUTHORS: Bojarski, Z., Ziolkowski, Z., Barszcz, E.

TITLE: A powder X-ray chamber for precision measurements of crystal lattice constants by the asymmetric method

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 64, abstract 11453
("Prace Inst. hutn." 1961, v. 13, no. 2, 85-88, Polish; Russian
and English summaries)

TEXT: The authors describe changes in the design of cylindrical powder chambers of 114.6 mm in diameter, developed and manufactured at the Institute of Ferrous Metallurgy. The new model of the chamber is intended not only for performing identification analyses but also for precision measurements of crystal lattice constants by the asymmetrical or reverse method. Dismountable thermostatic screens assure a stable controlled temperature of the specimen and the film. Measurements of the crystal lattice constants have shown that radiographs taken at stable temperature, yield mean arithmetic values of the lattice constants, which differ only by the sixth digit. Graduation of the chamber was made in the 13.2 - 50.2°C temperature range for the purpose of establishing

Card 1/2

A powder X-ray chamber ...

S/137/62/000/001/168/237
A006/A101

the difference between the actual and the measured temperature of the specimen. In the chamber designed, the most favorable temperature range is from 15 to 25°C, where the temperature fluctuation is about 0.1°C. In this range the accuracy of the chamber is up to the fifth digit.

I. Nikitina

[Abstracter's note: Complete translation]

Card 2/2

ZIOLKOWSKI, Zbigniew, mgr.

Planning of new techniques in the U.S.S.R. Przegl. techn. no.33:
3-4 17 Ag '60.

1. Komitet do Spraw Techniki, Warszawa.

ZIOLKOWSKI, Zenon; ORSZUIAK, Jadwiga; WOJTANOWSKA, Halina

Aqueous extract of Symphytum officinale in the treatment of some skin diseases in infants. Pediat. polska 32 no. 12:1353-1360 Dec 57.

1. Z I Oddz. Niemowlęcego Woj. Szpitala Dziecięcego w Bydgoszczy
Dyrektor Szpitala: B. Chrzanowski. Ordynator Oddziału: Z. Ziolkowski.

(SKIN DISEASES, in inf. & child
ther., aqueous extract of Symphytum officinale (Pol))
(PLANTS, extracts

Symphytum officinale aqueous extract in ther. of skin dis.
in inf. (Pol))

ZIOŁKOWSKI, Zenon; CHRZANOWSKI, Bernard

Usefulness of comparative leukocyte count for diagnostic verification of otitis media in infants; preliminary reports. Pediat. polska 34 no.2:175-179 Feb 59.

1. Z Zakładu Pediatrii Oddziału I.D. i S.K. I. w Bydgoszczy Kierownik: Zakładu, dr med. B. Chrzanowski. Adres: dr. Z. Ziolkowski, Bydgoszcz, ul. Poniatowskiego 24.

(OTITIS MEDIA, in inf. & child.

leukocyte count, diag. value in inf. (Pol))

(LEUKOCYTE COUNT, in var. dis.

otitis media in inf., diag. value (Pol))

CHRZANOWSKI, Bernard; ZIOLKOWSKI, Zenon

Stercoraceous ileus as sequela of antibiotic therapy. Pediat.
polska 32 no.2:167-171 Feb 57.

1. Z Zakladu Pediatrii Oddzialu Instytutu Doskonalenia i
Specjalizacji Kadru Lekarskich w Bydgoszczy Kierownik
Zakladu: dr. med. B. Chrzanowski. Adres: Bydgoszcz, ul.
Chodkiewicza 44, Woj. Szpit. Dziec. im. J. Brudzinskiego.

(INTESTINAL OBSTRUCTION, in inf. & child

stercoraceous caused by antibiotic ther. of diarrhea
(Pol))

(ANTIBIOTICS, inj. eff.

intestinal obstruc., stercoraceous during diarrhea ther.
in child (Pol))

(DIARRHEA, in inf. & child

ther., antibiotics, causing stercoraceous intestinal
obstruct. (Pol))

ZIOLOWSKI, Z.

Poland/Chemical Technology - Chemical Products and Their Application. Silicates.
Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62241

Author: Ziolowski, Z.

Institution: None

Title: Roentgenographic Methods of Investigation of Ceramic Materials

Original

Periodical: Rentgenograficzne metody badania materialow ceramicznych, Prace
inst. Min-wa hutn., 1955, 7, No 2-4, 203-208; Polish; Russian and
English resumés

Abstract: Recording of roentgenograms (R) of investigated materials is done
according to the powder method of Debye-Scherrer with subsequent
comparison of the position and intensity of the lines of the re-
cording with those of Debye-roentgenograms of specimens of pure
minerals. Absence of standard lines in the R of the sample under
study does not always mean an absence of the phase because of the
limited accuracy of the method. Thus in a mixture of clayey

Card 1/2

Poland/Chemical Technology - Chemical Products and Their Application. Silicates.
Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62241

Abstract: minerals it is possible to determine endelite only with a 50% concentration thereof; halusite in the presence of kaolinite can be determined if the concentration is of 45%; kaolinite can be determined at a concentration of 5-10%. On roentgen analysis (RA) of titanium raw materials the determination is accurate, for anatase-rutile mixtures, within 3% rutile and 5% anatase. Determination of mullite content in fired ceramic body is effected in the following manner: to the material under study is added 10% NaCl (standard) and a previously prepared calibration curve (in coordinates: mullite content (in %) versus intensity ratio $I_{\text{mullite}}:I_{\text{NaCl}}$) is used for comparing the relative intensity of mullite lines (121) and (220) of the R. The selected lines are convenient for the reason that in their vicinity there are no lines of other phases of ceramic materials: quartz, corundum and cristobalite. Comparison of intensities is effected by computation of darkened areas after photometric processing of R recorded from plane samples. Accuracy of mullite determination is of 14% (relative).

Card 2/2

ZIOLKOWSKI, Z.

Board of the Ministry of the Agricultural and Food Industries on the matter of cooperation with the Scintific-Technical Association of Fngineers and Technicians of the Food Industry.

P. 147 (Przemsl Spozywczy. Vol. 10, no. 4, Apr. 1956, Warszawa, Poland)

Monthly Index of East European Accessions (EFAI) L.C Vol. 7, no. 2, February 1958

ZIOLKOWSKI, Z.

Foreign substances in food; 2d International Symposium in Como.

P. 371 (PRZEMYSŁ SPOŻYWCY) (Warsaw, Poland) Vol. 11, no. 9, Sept. 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5. 1958

POLAND/Chemical Technology. Chemical Products and Their
Application. Food Industry.

H-28

Abs Jour: Ref Zhur-Khin., No 2, 1959, 6267.

Author : Gutowski, J.; Kamiński, W.; Ziolkowski, Z.

Inst :

Title : Food Industry in Yugoslavia, its Economics and Trends of
Development.

Orig Pub: Przeg. spożywczy, 1958, 12, No 6, 212-219.

Abstract: No abstract.

Card : 1/1

123

ZIOLKOWSKI, Z.

Technical press of the food industry as seen by readers. p.296

PRZEMYSŁ SPOŻYWCZY. (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Przemysłu Spożywczego) Warszawa, Poland
Vol13, no.8, Mar. 1959

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.1, Jan. 1960

Uncl.

ZIOLKOWSKI, Z.

Foreign substances in food; 5th International Symposium in Budapest,
May 11-15, 1959. p. 359.

PREZEMYSŁ SPOZWYCZYZNY. (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników
Przemysłu Spożywczego) Warszawa, Poland
Vol.13, no.9, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.1, Jan. 1959.

Uncl.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2

ZIOLKOVSKIY, K. E.

"Space Investigations by Means of Propulsion Spaceships," Kaluga, Leningrad, 1914

B-76875

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R002065230001-2"

ZIOLKOWSKI, Zenon

Seidlmayer's cockade purpura. Pediat. polska 31 no.10;
1151-1153 Oct 56.

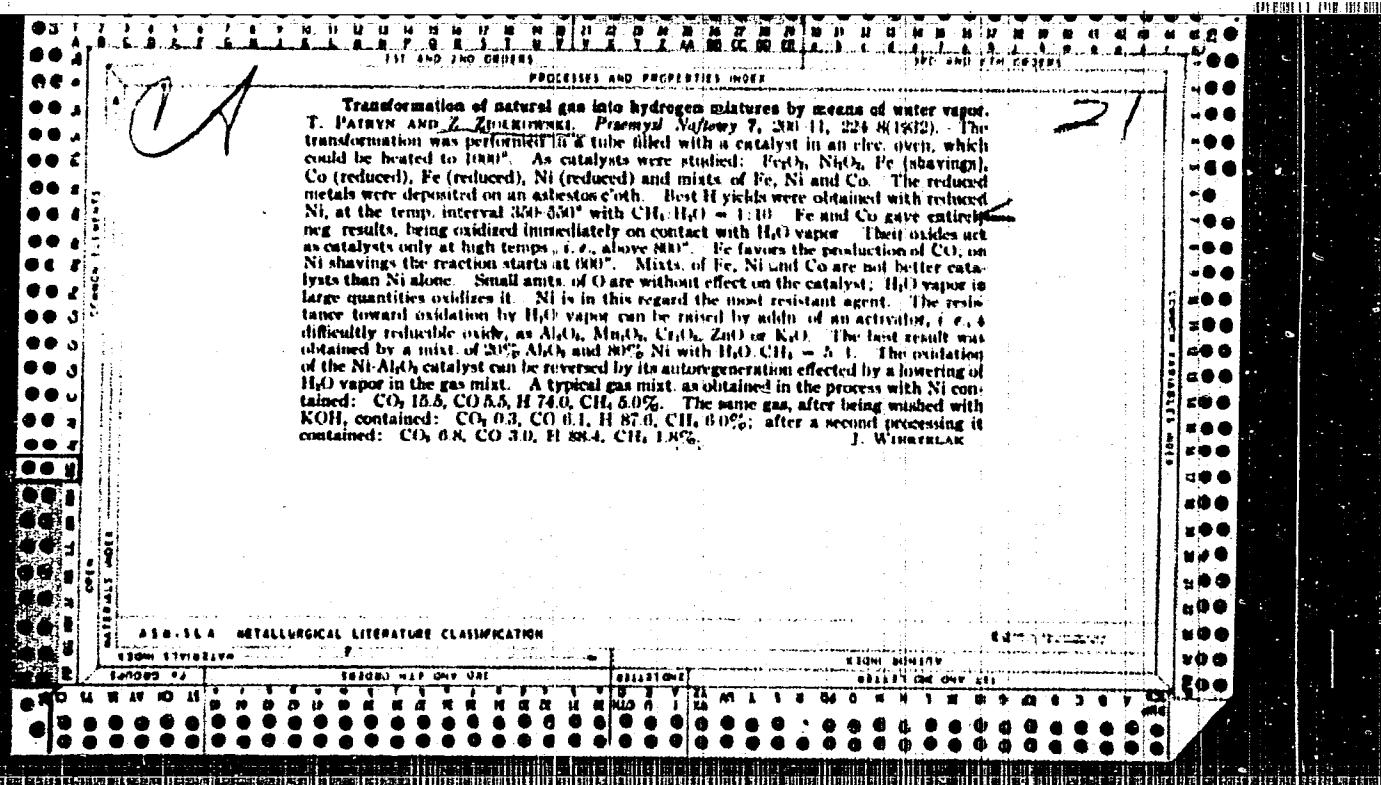
1. Z Oddzialu Niemowlecego Wojewodzkiego Szpitala
Dzieciecego w Bydgoszczy. Dyrektor Szpitala: dr. med.
B. Chrzanowski, Ordynator Oddz. Niemowlecego: dr. med.
Z. Ziolkowski.

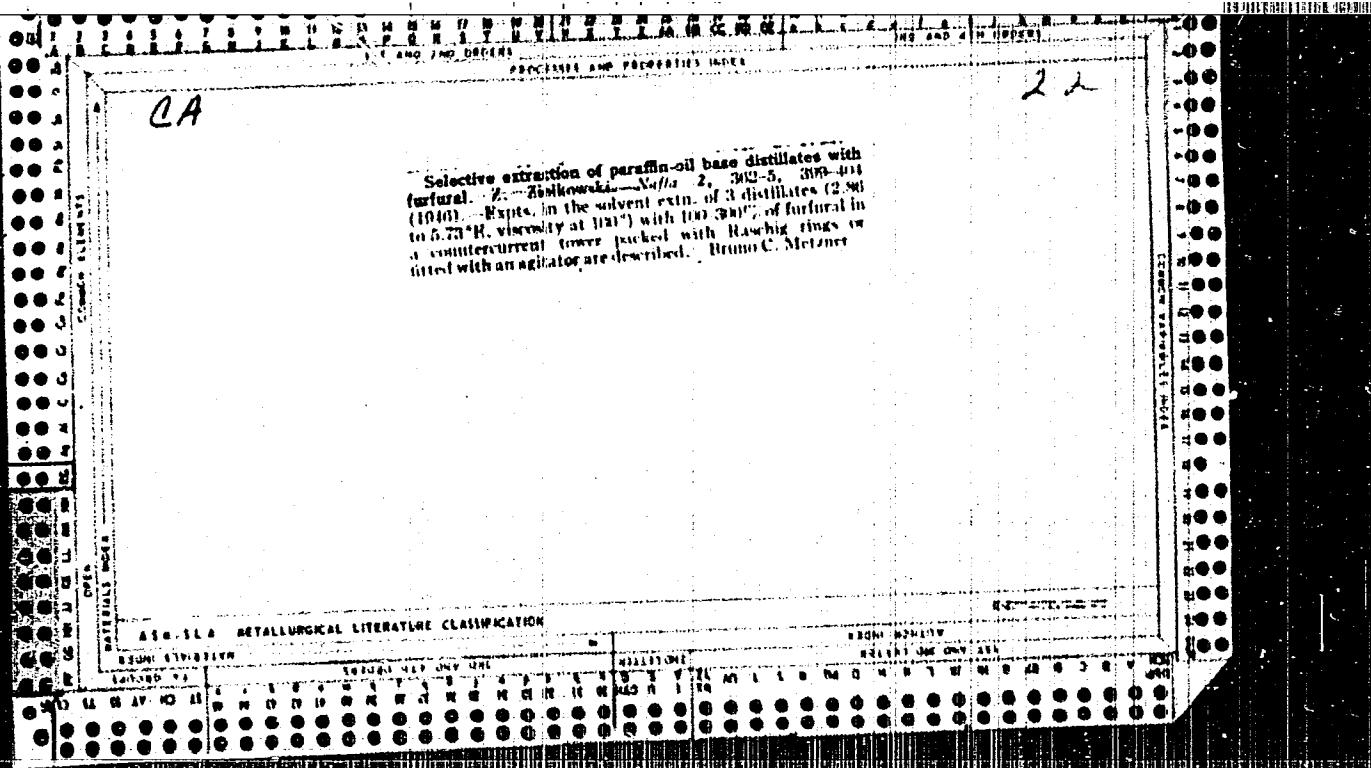
(PURPURA, in infant and child,
Seidlmayer's cockade purpura (Pol))

ZIOLKOWSKI, Z.

Achievements of the Association of Engineers of the Agricultural and Food Industries during ten years of People's Poland. p. 223. (PRZEMYSŁ ROLNY I SPOŁYWCZY, Vol. 8, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.





SEARCHED		INDEXED		FILED	
SERIAL NO. 117 AND 118 PROD 81		180CK1541 AND PROPERTIES INDEX			
COMPOUND ELEMENT	COMPOUND ELEMENT	COMPOUND ELEMENT	COMPOUND ELEMENT	COMPOUND ELEMENT	COMPOUND ELEMENT
F					
3333. SELECTIVE EXTRACTION OF PARAFFIN OIL BASE DISTILLATES WITH FURFURAL. Ziolkowski, Z. (Nafta, 1946, vol. 2, 363-365, 399-404; abstr. in Chem. Abstr., 1949, vol. 43, 3002). Experiments in the solvent extraction of three distillates 2.86 to 5.73° C. viscosity at 100°) with 100-300% of furfural in a countercurrent tower packed with Rasching rings or fitted with an agitator are described.					
C.A.					
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION					
TECHNIQUE/PROCESS		SUBJECT MAT. ON THIS CARD		TECHNIQUE	
TOPIC #	TOPIC #	TOPIC #	TOPIC #	TOPIC #	TOPIC #
10 12 14 16 18	19 20 22 24 26	27 29 31 33 35	37 39 41 43 45	47 49 51 53 55	57 59 61 63 65

ZICLO, A.; KRZCIOŁKOWSKI, L.

"First Big Polish Engine for Direct Current", p. 67, (WIAZMOSCZ ELEKTROTECHNICZNE, Vol. 14, No. 3, March 1954, Warsaw, Poland)

SG: Monthly List of East European Accessories (EERAL), LC, Vol. 4, N. 3, March 1955, Uncl.

POLAND

PIETRZYK, Jan, ZIOLÓ, Tadeusz, and ZULINSKI, Tadeusz of the Polio Vaccine Production Division (Zaklad Produkcji Szczepionki "Polio") of the Plant for the Manufacture of Sera and Vaccines (Wytwarznia Surowic i Szczepionek) [Director: Bozen, Dr. Wacław MIRKOWSKI] and the Department of Pathological Anatomy (Wydział Anatomii Patologicznej) of the Veterinary Division (Wydział Weterynarii) of the WSR [Wyższa Szkoła Rolnicza, Higher School of Agriculture] (Director: Prof. Dr. Tadeusz ZULINSKI), both in Lublin

"Cholesterol Content of Adrenal Cortex in Monkeys Following the Administration of Phenactil."

Warsaw-Lublin, Medycyna Weterynaryjna, Vol 18, No 9, Sep 62,
pp 528-531.

Abstract: Authors made a study of the effect of phenactil on the organism of acclimated Macacus Rhesus monkeys, particularly on the adrenals. Increased size and distribution of birefringent crystals in the adrenals, corresponding to a rise of cholesterol was determined 12-24 hours, with a re-

ZIOŁOWSKI, Z., dr inż.

Elaboration of a method for roentgenospectral quantity analysis
of alloy compounds in steels. Biul inf inst metal zel no.2/3:
20-22 '63.

ZIOLKOWSKI, Z.

ZIOLKOWSKI, Z.

G. Filonenko and P. Lebedev's Drying Installations; a book review.

p. 154 (Wiadomosci Chemiczne) Vol. 11, no. 2, Feb. 1957, Wroclaw, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

solid solns. in the lattice of L . Increased Al_2O_3 content inhibits the growth of the ferrite crystals (1-42% mole % Al_2O_3 , sp. gr. of the ferrite 5.2-4.8 g./cc.). At less than 15% Al_2O_3 the dimensions of the elongated L all are considerably decreased. >15% the changes are much smaller. In the first stage the L and L_1 decrease linearly and the co_1 ,

treave force increment, attaining a value of 6000 sec⁻¹. It is noted that $\frac{1}{2}$ Al₂O₃, the ferrite being sintered at 1100-1300°^o C, does not affect the change in the magnetic properties, but it does not affect the change in the magnetic properties, but it does not affect the change in the magnetic properties.

For the first time in history, we have the opportunity to end poverty.

L. Kozlowski and B. Ziolkowski

if NiO is added. At 10% NiO or CoO the L-type ferrite still exists and disappears at 40% at which compn. new compds. are formed. The sisters of NiO and CoO do not fit as hard magnets. The literature on the effect of a series of metal oxides on magnetic properties of Ba, Sr, and Pb ferrites is reviewed.

Mordacq, Medwied

4
1

ZIOLKOWSKI, Z.

TECHNOLOGY

PERIODICAL: CHEMIA STOSOWANA. Vol. 2, no. 4, 1958

ZIOLKOWSKI, Z. Comparison of the efficiency of packed and mechanical extraction columns. p. 457.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4.

April 1959, Unclass

ZIOLKOWSKI, Z.

TECHNOLOGY

PERIODICAL: CHEMIA STOSOWANA. Vol. 2, no. 4, 1958

ZIOLKOWSKI, Z. Removal of phenol from low-temperature carbonized benzine in extraction columns with pulsation. p. 475.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4.

April 1959, Unclass

PHASE I BOOK EXPLOITATION

POL/5033

Czapliński, Stefan, Master in Engineering, Jan Dyduszyński,
Professor, Master in Engineering, Jan Sobolewski, Docent,
Master in Engineering, Zbigniew Szaniawski, Master in En-
gineering, and Zdzisław Ziolkowski, Professor, Master in
Engineering.

Najnowsze rozwiązania konstrukcyjne w budowie aparatury chemicznej
1959/1960; praca zbiorowa (Latest Design Developments in the
Construction of Chemical Apparatus 1959/60; a Collective
Work) Warsaw, Państwowe Wydawn. Techniczne, 1960. 127 p.
Errata slip inserted. 1,690 copies printed. (Series: Nowa
technika, zesz. 32)

Coordinator: Jan Dyduszyński, Professor, Master in Engineering;
Scientific Ed. PWT: Irena Gajewska, Master in Science; Tech.
Ed.: I. Milewska.

PURPOSE: This book is intended for chemists, engineers, and
designers of chemical equipment for research and industry.
It may also be used by students in higher technical schools.

Card 1/5

Latest Design (Cont.)

POL/5033

COVERAGE: The book discusses the latest (up to 1959) trends in the development of some designs for chemical equipment. The authors deal specifically with progress in the design of absorption and distillation equipment, and latest developments in the design of gas compressors and sedimentation separators used in the chemical industry. No personalities are mentioned. References accompany each section.

TABLE OF CONTENTS:

I. Progress in the Field of Absorption Equipment Design	5
1. Introduction	5
2. General review of progress in absorption-tower design	6
3. New types of packing	8
a. Solid-wall packings	8
b. Grid-and mesh-type packings	8
c. Packings consisting of parallel layers	18
	32

Card 2/5

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✓6260

008.22

Kozłowski L., Zieliński Z. The Effect of Adding Al_2O_3 , Mn_2O_3 , Cr_2O_3 , Bi_2O_3 , CaO and NiO on the Structure and Magnetic Properties of Barium Ferrite. 3

"Wpływ dodatków Al_2O_3 , Mn_2O_3 , Cr_2O_3 , Bi_2O_3 , CaO i NiO na strukturę oraz właściwości magnetyczne ferrytów barowych". Przegląd Telekomunikacyjny, No. 1, 1959, pp. 5-10, 19 figs.

X-ray examinations and magnetic tests carried out with a view to determining the effect of adding Al_2O_3 , Mn_2O_3 , Cr_2O_3 , Bi_2O_3 , CaO , NiO on the structure and magnetic properties of barium ferrites used in the production of permanent magnets, show that adding Al_2O_3 , Mn_2O_3 and Bi_2O_3 to barium-aluminate, barium-manganese and barium-bismuth ferrites diminishes the speed of grain growth in sintered material, and that the sintering temperatures ensuring a low rate of growth are dependent upon the oxide being added. In order to ensure a uniform structure of barium-aluminate ferrite, sintering temperatures in excess of 1200°C . should be used. The effect of Mn_2O_3 on the growth of grain is insignificant so that sintering temperatures should be between 1000 and 1100°C . At low Bi_2O_3 content, the presence of an easily fusible stage facilitates sintering of the pressing at a relatively low temperature, a process which prevents the growth of grain and the drop of coercive force. Adding more than 2-5% of Bi_2O_3 results in the formation of a new stage of an indefinable structure which counteracts the growth of grain at the stage $\text{BaFe}_{12}\text{O}_{19}$. Adding Cr_2 , CaO and NiO seriously affects the magnetic properties of barium ferrite.

11
xx

ZIOŁOWSKI, Z.

(D) M.R.C.

300

\$49.62/100 633.32 : \$63.6 543.71

Ziołowski, Z. X-ray Analysis of Various Polish Kaolins and Refractories
C1678."Stereogeograficzne badanie krajowych kaolinów i glink ogniotrwa-
nych". Uzrane Inst. Metalurgii No. 43, Katowice, 1952, PWT, 105 pp.,
4 figs., 5 tabs.

This work refers to earlier works by Bokarski on properties of Polish argillaceous substances. The investigation of physico-chemical and tech-
nological properties of argillaceous substances calls for a mineralogical
analysis by the X-ray method. The structure of argillaceous rocks
and the technique of X-ray examination of their mineral composition
are discussed, with particular reference to X-ray apparatuses used for
the investigations, material used for research and the chemical compo-
sition of such material, preliminary preparation of samples, standards
for argillaceous minerals and limits within which they can be recognized.
The results are summed up and conclusions drawn from them. The
conclusions refer to the content of kaolinite in Polish clay materials,
the author stating that all such Polish clays as have been tested, to-
gether with Zetilite kaolin, contain, in addition to kaolinite, illite or
the muscovite type; moreover all clays contain quartz. The comparison
of quartz grains in clays leads the author to offer certain remarks as
to the possibility of removing quartz by melting.

Polish Technical Abst.
No. 1 1954
Mining

ZIOLOWSKI, Z.

Quantitative determination of mullite in refractories by the X-ray method. Z. Ziolkowski (*Prace Instytutu Fizyki*, 1954, 6, 314-321).—The method described is based on the photometric measurement of the intensity of X-ray lines recorded on film. A camera of Bragg-Brennan type is used and the powder samples are placed in a rotating holder. Mullite, 96% pure, obtained from glycine fired at 1500° and purified by HF is used as a standard and NaCl (a 10% addition) as a reference substance. The analytical curve for determination of mullite shows the % of mullite content as a function of the intensity ratio of the mullite (121) line ($\lambda = 2.90\text{\AA}$) and the NaCl (220) line ($\lambda = 1.99\text{\AA}$). The max. error of the measurements in the 20-80% mullite range is ~14%.
S. K. Lachowicz